

Figure 1.

1	M	D	P	T	T	P	A	W	G	T	E	S	T	T	V	15
1	ATG	GAT	CCA	ACC	ACC	CCG	GCC	TGG	GGA	ACA	GAA	AGT	ACA	ACA	GTG	45
16	N	G	N	D	Q	A	L	L	L	L	C	G	K	E	T	30
46	AAT	GGA	AAT	GAC	CAA	GCC	CTT	CTT	CTG	CTT	TGT	GGC	AAG	GAG	ACC	90
31	L	I	P	V	F	L	I	L	F	I	A	L	V	G	L	45
91	CTG	ATC	CCG	GTC	TTC	CTG	ATC	CTT	TTC	ATT	GCC	CTG	GTC	GGG	CTG	135
46	V	G	N	G	F	V	L	W	L	L	G	F	R	M	R	60
136	GTA	GGA	AAC	GGG	TTT	GTG	CTC	TGG	CTC	CTG	GGC	TTC	CGC	ATG	CGC	180
61	R	N	A	F	S	V	Y	V	L	S	L	A	G	A	D	75
181	AGG	AAC	GCC	TTC	TCT	GTC	TAC	GTC	CTC	AGC	CTG	GCC	GGG	GCC	GAC	225
76	F	L	F	L	C	F	Q	I	I	N	C	L	V	Y	L	90
226	TTC	CTC	TTC	CTC	TGC	TTC	CAG	ATT	ATA	AAT	TGC	CTG	GTG	TAC	CTC	270
91	S	N	F	F	C	S	I	S	I	N	F	P	S	F	F	105
271	AGT	AAC	TTC	TTC	TGT	TCC	ATC	TCC	ATC	AAT	TTC	CCT	AGC	TTC	TTC	315
106	T	T	V	M	T	C	A	Y	L	A	G	L	S	M	L	120
316	ACC	ACT	GTG	ATG	ACC	TGT	GCC	TAC	CTT	GCA	GGC	CTG	AGC	ATG	CTG	360
121	S	T	V	S	T	E	R	C	L	S	V	L	W	P	I	135
361	AGC	ACC	GTC	AGC	ACC	GAG	CGC	TGC	CTG	TCC	GTC	CTG	TGG	CCC	ATC	405
136	W	Y	R	C	R	R	P	R	H	L	S	A	V	V	C	150
406	TGG	TAT	CGC	TGC	CGC	CGC	CCC	AGA	CAC	CTG	TCA	GCG	GTC	GTG	TGT	450
151	V	L	L	W	A	L	S	L	L	L	S	I	L	E	G	165
451	GTC	CTG	CTC	TGG	GCC	CTG	TCC	CTA	CTG	CTG	AGC	ATC	TTG	GAA	GGG	495
166	K	F	C	G	F	L	F	S	D	G	D	S	G	W	C	180
496	AAG	TTC	TGT	GGC	TTC	TTA	TTT	AGT	GAT	GGT	GAC	TCT	GGT	TGG	TGT	540
181	Q	T	F	D	F	I	T	A	A	W	L	I	F	L	F	195
541	CAG	ACA	TTT	GAT	TTC	ATC	ACT	GCA	GCG	TGG	CTG	ATT	TTT	TTA	TTC	585
196	M	V	L	C	G	S	S	L	A	L	L	V	R	I	L	210
586	ATG	GTT	CTC	TGT	GGG	TCC	AGT	CTG	GCC	CTG	CTG	GTC	AGG	ATC	CTC	630
211	C	G	S	R	G	L	P	L	T	R	L	Y	L	T	I	225
631	TGT	GGC	TCC	AGG	GGT	CTG	CCA	CTG	ACC	AGG	CTG	TAC	CTG	ACC	ATC	675
226	L	L	T	V	L	V	F	L	L	C	G	L	P	F	G	240
676	CTG	CTC	ACA	GTG	CTG	GTG	TTC	CTC	CTC	TGC	GGC	CTG	CCC	TTT	GGC	720
241	I	Q	W	F	L	I	L	W	I	W	K	D	S	D	V	255
721	ATT	CAG	TGG	TTC	CTA	ATA	TTA	TGG	ATC	TGG	AAG	GAT	TCT	GAT	GTC	765
256	L	F	C	H	I	H	P	V	S	V	V	L	S	S	L	270
766	TTA	TTT	TGT	CAT	ATT	CAT	CCA	GTT	TCA	GTT	GTC	CTG	TCA	TCT	CTT	810

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Figure 1 (cont.)

271	N	S	S	A	N	P	I	I	Y	F	F	V	G	S	F	285
811	AAC	AGC	AGT	GCC	AAC	CCC	ATC	ATT	TAC	TTC	TTC	GTG	GGC	TCT	TTT	855
286	R	K	Q	W	R	L	Q	Q	P	I	L	K	L	A	L	300
856	AGG	AAG	CAG	TGG	CGG	CTG	CAG	CAG	CCG	ATC	CTC	AAG	CTG	GCT	CTC	900
301	Q	R	A	L	Q	D	I	A	E	V	D	H	S	E	G	315
901	CAG	AGG	GCT	CTG	CAG	GAC	ATT	GCT	GAG	GTG	GAT	CAC	AGT	GAA	GGA	945
316	C	F	R	Q	G	T	P	E	M	S	R	S	S	L	V	330
946	TGC	TTC	CGT	CAG	GGC	ACC	CCG	GAG	ATG	TCG	AGA	AGC	AGT	CTG	GTG	990
331	*															331
991	TAG															993

20020-135000

Figure 1. The structure of the proposed model. The model is composed of three main parts: a feature extraction module, a classification module, and a fusion module. The feature extraction module uses a pre-trained VGG16 model to extract features from the input images. The classification module uses a pre-trained ResNet50 model to classify the features. The fusion module combines the features from the VGG16 and ResNet50 models to produce the final classification result.

1	M	E	S	S	P	I	P	Q	S	S	G	N	S	S	T	15
1	ATG	GAG	TCC	TCA	CCC	ATC	CCC	CAG	TCA	TCA	GGG	AAC	TCT	TCC	ACT	45
16	L	G	R	V	P	Q	T	P	G	P	S	T	A	S	G	30
46	TTG	GGG	AGG	GTC	CCT	CAA	ACC	CCA	GGT	CCC	TCT	ACT	GCC	AGT	GGG	90
31	V	P	E	V	G	L	R	D	V	A	S	E	S	V	A	45
91	GTC	CCG	GAG	GTG	GGG	CTA	CGG	GAT	GTT	GCT	TCG	GAA	TCT	GTG	GCC	135
46	L	F	F	M	L	L	L	D	L	T	A	V	A	G	N	60
136	CTC	TTC	TTC	ATG	CTC	CTG	CTG	GAC	TTG	ACT	GCT	GTG	GCT	GGC	AAT	180
61	A	A	V	M	A	V	I	A	K	T	P	A	L	R	K	75
181	GCC	GCT	GTG	ATG	GCC	GTG	ATC	GCC	AAG	ACG	CCT	GCC	CTC	CGA	AAA	225
76	F	V	F	V	F	H	L	C	L	V	D	L	L	A	A	90
226	TTT	GTC	TTC	GTC	TTC	CAC	CTC	TGC	CTG	GTG	GAC	CTG	CTG	GCT	GCC	270
91	L	T	L	M	P	L	A	M	L	S	S	S	A	L	F	105
271	CTG	ACC	CTC	ATG	CCC	CTG	GCC	ATG	CTC	TCC	AGC	TCT	GCC	CTC	TTT	315
106	D	H	A	L	F	G	E	V	A	C	R	L	Y	L	F	120
316	GAC	CAC	GCC	CTC	TTT	GGG	GAG	GTG	GCC	TGC	CGC	CTC	TAC	TTG	TTT	360
121	L	S	V	C	F	V	S	L	A	I	L	S	V	S	A	135
361	CTG	AGC	GTG	TGC	TTT	GTC	AGC	CTG	GCC	ATC	CTC	TCG	GTG	TCA	GCC	405
136	I	N	V	E	R	Y	Y	Y	V	V	H	P	M	R	Y	150
406	ATC	AAT	GTG	GAG	CGC	TAC	TAT	TAC	GTA	GTC	CAC	CCC	ATG	CGC	TAC	450
151	E	V	R	M	T	L	G	L	V	A	S	V	L	V	G	165
451	GAG	GTG	CGC	ATG	ACG	CTG	GGG	CTG	GTG	GCC	TCT	GTG	CTG	GTG	GGT	495
166	V	W	V	K	A	L	A	M	A	S	V	P	V	L	G	180
496	GTG	TGG	GTG	AAG	GCC	TTG	GCC	ATG	GCT	TCT	GTG	CCA	GTG	TTG	GGA	540
181	R	V	S	W	E	E	G	A	P	S	V	P	P	G	C	195
541	AGG	GTC	TCC	TGG	GAG	GAA	GGA	GCT	CCC	AGT	GTC	CCC	CCA	GGC	TGT	585
196	S	L	Q	W	S	H	S	A	Y	C	Q	L	F	V	V	210
586	TCA	CTC	CAG	TGG	AGC	CAC	AGT	GCC	TAC	TGC	CAG	CTT	TTT	GTG	GTG	630
211	V	F	A	V	L	Y	F	L	L	P	L	L	L	I	L	225
631	GTC	TTT	GCT	GTC	CTT	TAC	TTT	CTG	TTG	CCC	CTG	CTC	CTC	ATA	CTT	675
226	V	V	Y	C	S	M	F	R	V	A	R	V	A	A	M	240
676	GTG	GTC	TAC	TGC	AGC	ATG	TTC	CGA	GTG	GCC	CGC	GTG	GCT	GCC	ATG	720
241	Q	H	G	P	L	P	T	W	M	E	T	P	R	Q	R	255
721	CAG	CAC	GGG	CCG	CTG	CCC	ACG	TGG	ATG	GAG	ACA	CCC	CGG	CAA	CGC	765
256	S	E	S	L	S	S	R	S	T	M	V	T	S	S	G	270
766	TCC	GAA	TCT	CTC	AGC	AGC	CGC	TCC	ACG	ATG	GTC	ACC	AGC	TCG	GGG	810
271	A	P	Q	T	T	P	H	R	T	F	G	G	G	K	A	285

Figure 2 (cont.)

811	GCC	CCC	CAG	ACC	ACC	CCA	CAC	CGG	ACG	TTT	GGG	GGA	GGG	AAA	GCA	855
286	A	V	V	L	L	A	V	G	G	Q	F	L	L	C	W	300
856	GCA	GTG	GTT	CTC	CTG	GCT	GTG	GGG	GGA	CAG	TTC	CTG	CTC	TGT	TGG	900
301	L	P	Y	F	S	F	H	L	Y	V	A	L	S	A	Q	315
901	TTG	CCC	TAC	TTC	TCT	TTC	CAC	CTC	TAT	GTT	GCC	CTG	AGT	GCT	CAG	945
316	P	I	S	T	G	Q	V	E	S	V	V	T	W	I	G	330
946	CCC	ATT	TCA	ACT	GGG	CAG	GTG	GAG	AGT	GTG	GTC	ACC	TGG	ATT	GGC	990
331	Y	F	C	F	T	S	N	P	F	F	Y	G	C	L	N	345
991	TAC	TTT	TGC	TTC	ACT	TCC	AAC	CCT	TTC	TTC	TAT	GGA	TGT	CTC	AAC	1035
346	R	Q	I	R	G	E	L	S	K	Q	F	V	C	F	F	360
1036	CGG	CAG	ATC	CGG	GGG	GAG	CTC	AGC	AAG	CAG	TTT	GTC	TGC	TTC	TTC	1080
361	K	P	A	P	E	E	E	L	R	L	P	S	R	E	G	375
1081	AAG	CCA	GCT	CCA	GAG	GAG	GAG	CTG	AGG	CTG	CCT	AGC	CGG	GAG	GGC	1125
376	S	I	E	E	N	F	L	Q	F	L	Q	G	T	G	C	390
1126	TCC	ATT	GAG	GAG	AAC	TTC	CTG	CAG	TTC	CTT	CAG	GGG	ACT	GGC	TGT	1170
391	P	S	E	S	W	V	S	R	P	L	P	S	P	K	Q	405
1171	CCT	TCT	GAG	TCC	TGG	GTT	TCC	CGA	CCC	CTA	CCC	AGC	CCC	AAG	CAG	1215
406	E	P	P	A	V	D	F	R	I	P	G	Q	I	A	E	420
1216	GAG	CCA	CCT	GCT	GTT	GAC	TTT	CGA	ATC	CCA	GGC	CAG	ATA	GCT	GAG	1260
421	E	T	S	E	F	L	E	Q	Q	L	T	S	D	I	I	435
1261	GAG	ACC	TCT	GAG	TTC	CTG	GAG	CAG	CAA	CTC	ACC	AGC	GAC	ATC	ATC	1305
436	M	S	D	S	Y	L	R	P	A	A	S	P	R	L	E	450
1306	ATG	TCA	GAC	AGC	TAC	CTC	CGT	CCT	GCC	GCC	TCA	CCC	CGG	CTG	GAG	1350
451	S	*														452
1351	TCA	TGA														1356

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Figure 3.

1	M	D	P	T	I	S	T	L	D	T	E	L	T	P	I	15
1	ATG	GAT	CCA	ACC	ATC	TCA	ACC	TTG	GAC	ACA	GAA	CTG	ACA	CCA	ATC	45
16	N	G	T	E	E	T	L	C	Y	K	Q	T	L	S	L	30
46	AAC	GGA	ACT	GAG	GAG	ACT	CTT	TGC	TAC	AAG	CAG	ACC	TTG	AGC	CTC	90
31	T	V	L	T	C	I	V	S	L	V	G	L	T	G	N	45
91	ACG	GTG	CTG	ACG	TGC	ATC	GTT	TCC	CTT	GTC	GGG	CTG	ACA	GGA	AAC	135
46	A	V	V	L	W	L	L	G	C	R	M	R	R	N	A	60
136	GCA	GTT	GTG	CTC	TGG	CTC	CTG	GGC	TGC	CGC	ATG	CGC	AGG	AAC	GCC	180
61	F	S	I	Y	I	L	N	L	A	A	A	D	F	L	F	75
181	TTC	TCC	ATC	TAC	ATC	CTC	AAC	TTG	GCC	GCA	GCA	GAC	TTC	CTC	TTC	225
76	L	S	G	R	L	I	Y	S	L	L	S	F	I	S	I	90
226	CTC	AGC	GGC	CGC	CTT	ATA	TAT	TCC	CTG	TTA	AGC	TTC	ATC	AGT	ATC	270
91	P	H	T	I	S	K	I	L	Y	P	V	M	M	F	S	105
271	CCC	CAT	ACC	ATC	TCT	AAA	ATC	CTC	TAT	CCT	GTG	ATG	ATG	TTT	TCC	315
106	Y	F	A	G	L	S	F	L	S	A	V	S	T	E	R	120
316	TAC	TTT	GCA	GGC	CTG	AGC	TTT	CTG	AGT	GCC	GTG	AGC	ACC	GAG	CGC	360
121	C	L	S	V	L	W	P	I	W	Y	R	C	H	R	P	135
361	TGC	CTG	TCC	GTC	CTG	TGG	CCC	ATC	TGG	TAC	CGC	TGC	CAC	CGC	CCC	405
136	T	H	L	S	A	V	V	C	V	L	L	W	A	L	S	150
406	ACA	CAC	CTG	TCA	GCG	GTG	GTG	TGT	GTC	CTG	CTC	TGG	GCC	CTG	TCC	450
151	L	L	R	S	I	L	E	W	M	L	C	G	F	L	F	165
451	CTG	CTG	CGG	AGC	ATC	CTG	GAG	TGG	ATG	TTA	TGT	GGC	TTC	CTG	TTC	495
166	S	G	A	D	S	A	W	C	Q	T	S	D	F	I	T	180
496	AGT	GGT	GCT	GAT	TCT	GCT	TGG	TGT	CAA	ACA	TCA	GAT	TTC	ATC	ACA	540
181	V	A	W	L	I	F	L	C	V	V	L	C	G	S	S	195
541	GTC	GCG	TGG	CTG	ATT	TTT	TTA	TGT	GTG	GTT	CTC	TGT	GGG	TCC	AGC	585
196	L	V	L	L	I	R	I	L	C	G	S	R	K	I	P	210
586	CTG	GTC	CTG	CTG	ATC	AGG	ATT	CTC	TGT	GGA	TCC	CGG	AAG	ATA	CCG	630
211	L	T	R	L	Y	V	T	I	L	L	T	V	L	V	F	225
631	CTG	ACC	AGG	CTG	TAC	GTG	ACC	ATC	CTG	CTC	ACA	GTA	CTG	GTC	TTC	675
226	L	L	C	G	L	P	F	G	I	Q	F	F	L	F	L	240
676	CTC	CTC	TGT	GGC	CTG	CCC	TTT	GGC	ATT	CAG	TTT	TTC	CTA	TTT	TTA	720
241	W	I	H	V	D	R	E	V	L	F	C	H	V	H	L	255
721	TGG	ATC	CAC	GTG	GAC	AGG	GAA	GTC	TTA	TTT	TGT	CAT	GTT	CAT	CTA	765
256	V	S	I	F	L	S	A	L	N	S	S	A	N	P	I	270
766	GTT	TCT	ATT	TTC	CTG	TCC	GCT	CTT	AAC	AGC	AGT	GCC	AAC	CCC	ATC	810
271	I	Y	F	F	V	G	S	F	R	Q	R	Q	N	R	Q	285

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Figure 3 (cont.)

811	ATT	TAC	TTC	TTC	GTG	GGC	TCC	TTT	AGG	CAG	CGT	CAA	AAT	AGG	CAG	855
286	N	L	K	L	V	L	Q	R	A	L	Q	D	A	S	E	300
856	AAC	CTG	AAG	CTG	GTT	CTC	CAG	AGG	GCT	CTG	CAG	GAC	GCG	TCT	GAG	900
301	V	D	E	G	G	G	Q	L	P	E	E	I	L	E	L	315
901	GTG	GAT	GAA	GGT	GGA	GGG	CAG	CTT	CCT	GAG	GAA	ATC	CTG	GAG	CTG	945
316	S	G	S	R	L	E	Q	*								323
946	TCG	GGA	AGC	AGA	TTG	GAG	CAG	TGA								969

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Figure 4.

1	M L S I L L P S R G S R S G S R R G A L	20
1	ATGCTGTCCATTTTGCTTCCTTCCAGGGGAAGCAGAAGCGGGAGCCGTCGTGGAGCTCTG	60
21	L L E G A S R D M E K V D M N T S Q E Q	40
61	CTCCTGGAGGGAGCCTCCCGGGACATGGAGAAGGTGGACATGAATACATCACAGGAACAA	120
41	G L C Q F S E K Y K Q V Y L S L A Y S I	60
121	GGTCTCTGCCAGTTCTCAGAGAAGTACAAGCAAGTCTACCTCTCCCTGGCCTACAGTATC	180
61	I F I L G L P L N G T V L W H S W G Q T	80
181	ATCTTTATCCTAGGGCTGCCACTAAATGGCACTGTCTTGTGGCACTCCTGGGGCCAAACC	240
81	K R W S C A T T Y L V N L M V A D L L Y	100
241	AAGCGCTGGAGCTGTGCCACCACCTATCTGGTGAACCTGATGGTGGCCGACCTGCTTTAT	300
101	V L L P F L I I T Y S L D D R W P F G E	120
301	GTGCTATTGCCCTTCCTCATCATCACCTACTACTAGATGACAGGTGGCCCTTCGGGGAG	360
121	L L C K L V H F L F Y I N L Y G S I L L	140
361	CTGCTCTGCAAGCTGGTGCACCTTCCTGTTCTATATCAACCTTTACGGCAGCATCCTGCTG	420
141	L T C I S V H Q F L G V C H P L C S L P	160
421	CTGACCTGCATCTCTGTGCACCACTTCCTAGGTGTGTGCCACCCACTGTGTTGCTGCCC	480
161	Y R T R R H A W L G T S T T W A L V V L	180
481	TACCGGACCCGAGGCATGCCTGGCTGGGCACCAGCACCACCTGGGCCCTGGTGGTCCTC	540
181	Q L L P T L A F S H T D Y I N G Q M I W	200
541	CAGCTGCTGCCCACACTGGCCTTCTCCACACGGACTACATCAATGGCCAGATGATCTGG	600
201	Y D M T S Q E N F D R L F A Y G I V L T	220
601	TATGACATGACCAGCCAAGAGAATTTTGATCGGCTTTTTGCCTACGGCATAGTTCTGACA	660
221	L S G F F P S L V I L V C Y S L M V R S	240
661	TTGTCTGGCTTTTTTCCCTCCTTGGTCATTTTGGTGTGCTATTCACTGATGGTCAGGAGC	720
241	L I K P E E N L M R T G N T A R A R S I	260
721	CTGATCAAGCCAGAGGAGAACCTCATGAGGACAGGCAACACAGCCCGAGCCAGGTCCATC	780
261	R T I L L V C G L F T L C F V P F H I T	280
781	CGGACCATCCTACTGGTGTGTGGCCTCTTACCCTCTGTTTTGTGCCCTTCCATATCACT	840
281	R S F Y L T I C F L L S Q D C Q L L M A	300
841	CGCTCCTTCTACCTCACCATCTGCTTTCTGCTTTCTCAGGACTGCCAGCTCTTGATGGCA	900
301	A S V A Y K I W R P L V S V S S C L N P	320
901	GCCAGTGTGGCCTACAAGATATGGAGGCCTCTGGTGAAGTGTGAGCAGCTGCCTCAACCCA	960
321	V L Y F L S R G A K I E S G S S R N *	
961	GTCTGTACTTTCTTTCAAGGGGGCAAAAATAGAGTCAGGCTCCTCCAGAACTGA	

Figure 5.

1	M	N	Q	T	L	N	S	S	G	T	V	E	S	A	L	15
1	ATG	AAC	CAG	ACT	TTG	AAT	AGC	AGT	GGG	ACC	GTG	GAG	TCA	GCC	CTA	45
16	N	Y	S	R	G	S	T	V	H	T	A	Y	L	V	L	30
46	AAC	TAT	TCC	AGA	GGG	AGC	ACA	GTG	CAC	ACG	GCC	TAC	CTG	GTG	CTG	90
31	S	S	L	A	M	F	T	C	L	C	G	M	A	G	N	45
91	AGC	TCC	CTG	GCC	ATG	TTC	ACC	TGC	CTG	TGC	GGG	ATG	GCA	GGC	AAC	135
46	S	M	V	I	W	L	L	G	F	R	M	H	R	N	P	60
136	AGC	ATG	GTG	ATC	TGG	CTG	CTG	GGC	TTT	CGA	ATG	CAC	AGG	AAC	CCC	180
61	F	C	I	Y	I	L	N	L	A	A	A	D	L	L	F	75
181	TTC	TGC	ATC	TAT	ATC	CTC	AAC	CTG	GCG	GCA	GCC	GAC	CTC	CTC	TTC	225
76	L	F	S	M	A	S	T	L	S	L	E	T	Q	P	L	90
226	CTC	TTC	AGC	ATG	GCT	TCC	ACG	CTC	AGC	CTG	GAA	ACC	CAG	CCC	CTG	270
91	V	N	T	T	D	K	V	H	E	L	M	K	R	L	M	105
271	GTC	AAT	ACC	ACT	GAC	AAG	GTC	CAC	GAG	CTG	ATG	AAG	AGA	CTG	ATG	315
106	Y	F	A	Y	T	V	G	L	S	L	L	T	A	I	S	120
316	TAC	TTT	GCC	TAC	ACA	GTG	GGC	CTG	AGC	CTG	CTG	ACG	GCC	ATC	AGC	360
121	T	Q	R	C	L	S	V	L	F	P	I	W	F	K	C	135
361	ACC	CAG	CGC	TGT	CTC	TCT	GTC	CTC	TTC	CCT	ATC	TGG	TTC	AAG	TGT	405
136	H	R	P	R	H	L	S	A	W	V	C	G	L	L	W	150
406	CAC	CGG	CCC	AGG	CAC	CTG	TCA	GCC	TGG	GTG	TGT	GGC	CTG	CTG	TGG	450
151	T	L	C	L	L	M	N	G	L	T	S	S	F	C	S	165
451	ACA	CTC	TGT	CTC	CTG	ATG	AAC	GGG	TTG	ACC	TCT	TCC	TTC	TGC	AGC	495
166	K	F	L	K	F	N	E	D	R	C	F	R	V	D	M	180
496	AAG	TTC	TTG	AAA	TTC	AAT	GAA	GAT	CGG	TGC	TTC	AGG	GTG	GAC	ATG	540
181	V	Q	A	A	L	I	M	G	V	L	T	P	V	M	T	195
541	GTC	CAG	GCC	GCC	CTC	ATC	ATG	GGG	GTC	TTA	ACC	CCA	GTG	ATG	ACT	585
196	L	S	S	L	T	L	F	V	W	V	R	R	S	S	Q	210
586	CTG	TCC	AGC	CTG	ACC	CTC	TTT	GTC	TGG	GTG	CGG	AGG	AGC	TCC	CAG	630
211	Q	W	R	R	Q	P	T	R	L	F	V	V	V	L	A	225
631	CAG	TGG	CGG	CGG	CAG	CCC	ACA	CGG	CTG	TTC	GTG	GTG	GTC	CTG	GCC	675
226	S	V	L	V	F	L	I	C	S	L	P	L	S	I	Y	240
676	TCT	GTC	CTG	GTG	TTC	CTC	ATC	TGT	TCC	CTG	CCT	CTG	AGC	ATC	TAC	720
241	W	F	V	L	Y	W	L	S	L	P	P	E	M	Q	V	255
721	TGG	TTT	GTG	CTC	TAC	TGG	TTG	AGC	CTG	CCG	CCC	GAG	ATG	CAG	GTC	765
256	L	C	F	S	L	S	R	L	S	S	S	V	S	S	S	270
766	CTG	TGC	TTC	AGC	TTG	TCA	CGC	CTC	TCC	TCG	TCC	GTA	AGC	AGC	AGC	810
271	A	N	P	V	I	Y	F	L	V	G	S	R	R	S	H	285

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Figure 6.

1	M	E	A	D	L	G	A	T	G	H	R	P	R	T	E	15
1	ATG	GAA	GCT	GAC	CTG	GGT	GCC	ACT	GGC	CAC	AGG	CCC	CGC	ACA	GAG	45
16	L	D	D	E	D	S	Y	P	Q	G	G	W	D	T	V	30
46	CTT	GAT	GAT	GAG	GAC	TCC	TAC	CCC	CAA	GGT	GGC	TGG	GAC	ACG	GTC	90
31	F	L	V	A	L	L	L	L	G	L	P	A	N	G	L	45
91	TTC	CTG	GTG	GCC	CTG	CTG	CTC	CTT	GGG	CTG	CCA	GCC	AAT	GGG	TTG	135
46	M	A	W	L	A	G	S	Q	A	R	H	G	A	G	T	60
136	ATG	GCG	TGG	CTG	GCC	GGC	TCC	CAG	GCC	CGG	CAT	GGA	GCT	GGC	ACG	180
61	R	L	A	L	L	L	L	S	L	A	L	S	D	F	L	75
181	CGT	CTG	GCG	CTG	CTC	CTG	CTC	AGC	CTG	GCC	CTC	TCT	GAC	TTC	TTG	225
76	F	L	A	A	A	A	F	Q	I	L	E	I	R	H	G	90
226	TTC	CTG	GCA	GCA	GCG	GCC	TTC	CAG	ATC	CTA	GAG	ATC	CGG	CAT	GGG	270
91	G	H	W	P	L	G	T	A	A	C	R	F	Y	Y	F	105
271	GGA	CAC	TGG	CCG	CTG	GGG	ACA	GCT	GCC	TGC	CGC	TTC	TAC	TAC	TTC	315
106	L	W	G	V	S	Y	S	S	G	L	F	L	L	A	A	120
316	CTA	TGG	GGC	GTG	TCC	TAC	TCC	TCC	GGC	CTC	TTC	CTG	CTG	GCC	GCC	360
121	L	S	L	D	R	C	L	L	A	L	C	P	H	W	Y	135
361	CTC	AGC	CTC	GAC	CGC	TGC	CTG	CTG	GCG	CTG	TGC	CCA	CAC	TGG	TAC	405
136	P	G	H	R	P	V	R	L	P	L	W	V	C	A	G	150
406	CCT	GGG	CAC	CGC	CCA	GTC	CGC	CTG	CCC	CTC	TGG	GTC	TGC	GCC	GGT	450
151	V	W	V	L	A	T	L	F	S	V	P	W	L	V	F	165
451	GTC	TGG	GTG	CTG	GCC	ACA	CTC	TTC	AGC	GTG	CCC	TGG	CTG	GTC	TTC	495
166	P	E	A	A	V	W	W	Y	D	L	V	I	C	L	D	180
496	CCC	GAG	GCT	GCC	GTC	TGG	TGG	TAC	GAC	CTG	GTC	ATC	TGC	CTG	GAC	540
181	F	W	D	S	E	E	L	S	L	R	M	L	E	V	L	195
541	TTC	TGG	GAC	AGC	GAG	GAG	CTG	TCG	CTG	AGG	ATG	CTG	GAG	GTC	CTG	585
196	G	G	F	L	P	F	L	L	L	L	V	C	H	V	L	210
586	GGG	GGC	TTC	CTG	CCT	TTC	CTC	CTG	CTG	CTC	GTC	TGC	CAC	GTG	CTC	630
211	T	Q	A	T	A	C	R	T	C	H	R	Q	Q	Q	P	225
631	ACC	CAG	GCC	ACA	GCC	TGT	CGC	ACC	TGC	CAC	CGC	CAA	CAG	CAG	CCC	675
226	A	A	C	R	G	F	A	R	V	A	R	T	I	L	S	240
676	GCA	GCC	TGC	CGG	GGC	TTC	GCC	CGT	GTG	GCC	AGG	ACC	ATT	CTG	TCA	720
241	A	Y	V	V	L	R	L	P	Y	Q	L	A	Q	L	L	255
721	GCC	TAT	GTG	GTC	CTG	AGG	CTG	CCC	TAC	CAG	CTG	GCC	CAG	CTG	CTC	765
256	Y	L	A	F	L	W	D	V	Y	S	G	Y	L	L	W	270
766	TAC	CTG	GCC	TTC	CTG	TGG	GAC	GTC	TAC	TCT	GGC	TAC	CTG	CTC	TGG	810
271	E	A	L	V	Y	S	D	Y	L	I	L	L	N	S	C	285

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1	M	N	E	P	L	D	Y	L	A	N	A	S	D	F	P		15
1	ATG	AAT	GAG	CCA	CTA	GAC	TAT	TTA	GCA	AAT	GCT	TCT	GAT	TTC	CCC		45
16	D	Y	A	A	A	F	G	N	C	T	D	E	N	I	P		30
46	GAT	TAT	GCA	GCT	GCT	TTT	GGA	AAT	TGC	ACT	GAT	GAA	AAC	ATC	CCA		90
31	L	K	M	H	Y	L	P	V	I	Y	G	I	I	F	L		45
91	CTC	AAG	ATG	CAC	TAC	CTC	CCT	GTT	ATT	TAT	GGC	ATT	ATC	TTC	CTC		135
46	V	G	F	P	G	N	A	V	V	I	S	T	Y	I	F		60
136	GTG	GGA	TTT	CCA	GGC	AAT	GCA	GTA	GTG	ATA	TCC	ACT	TAC	ATT	TTC		180
61	K	M	R	P	W	K	S	S	T	I	I	M	L	N	L		75
181	AAA	ATG	AGA	CCT	TGG	AAG	AGC	AGC	ACC	ATC	ATT	ATG	CTG	AAC	CTG		225
76	A	C	T	D	L	L	Y	L	T	S	L	P	F	L	I		90
226	GCC	TGC	ACA	GAT	CTG	CTG	TAT	CTG	ACC	AGC	CTC	CCC	TTC	CTG	ATT		270
91	H	Y	Y	A	S	G	E	N	W	I	F	G	D	F	M		105
271	CAC	TAC	TAT	GCC	AGT	GGC	GAA	AAC	TGG	ATC	TTT	GGA	GAT	TTC	ATG		315
106	C	K	F	I	R	F	S	F	H	F	N	L	Y	S	S		120
316	TGT	AAG	TTT	ATC	CGC	TTC	AGC	TTC	CAT	TTC	AAC	CTG	TAT	AGC	AGC		360
121	I	L	F	L	T	C	F	S	I	F	R	Y	C	V	I		135
361	ATC	CTC	TTC	CTC	ACC	TGT	TTC	AGC	ATC	TTC	CGC	TAC	TGT	GTG	ATC		405
136	I	H	P	M	S	C	F	S	I	H	K	T	R	C	A		150
406	ATT	CAC	CCA	ATG	AGC	TGC	TTT	TCC	ATT	CAC	AAA	ACT	CGA	TGT	GCA		450
151	V	V	A	C	A	V	V	W	I	I	S	L	V	A	V		165
451	GTT	GTA	GCC	TGT	GCT	GTG	GTG	TGG	ATC	ATT	TCA	CTG	GTA	GCT	GTC		495
166	I	P	M	T	F	L	I	T	S	T	N	R	T	N	R		180
496	ATT	CCG	ATG	ACC	TTC	TTG	ATC	ACA	TCA	ACC	AAC	AGG	ACC	AAC	AGA		540
181	S	A	C	L	D	L	T	S	S	D	E	L	N	T	I		195
541	TCA	GCC	TGT	CTC	GAC	CTC	ACC	AGT	TCG	GAT	GAA	CTC	AAT	ACT	ATT		585
196	K	W	Y	N	L	I	L	T	A	T	T	F	C	L	P		210
586	AAG	TGG	TAC	AAC	CTG	ATT	TTG	ACT	GCA	ACT	ACT	TTC	TGC	CTC	CCC		630
211	L	V	I	V	T	L	C	Y	T	T	I	I	H	T	L		225
631	TTG	GTG	ATA	GTG	ACA	CTT	TGC	TAT	ACC	ACG	ATT	ATC	CAC	ACT	CTG		675
226	T	H	G	L	Q	T	D	S	C	L	K	Q	K	A	R		240
676	ACC	CAT	GGA	CTG	CAA	ACT	GAC	AGC	TGC	CTT	AAG	CAG	AAA	GCA	CGA		720
241	R	L	T	I	L	L	L	L	A	F	Y	V	C	F	L		255
721	AGG	CTA	ACC	ATT	CTG	CTA	CTC	CTT	GCA	TTT	TAC	GTA	TGT	TTT	TTA		765
256	P	F	H	I	L	R	V	I	R	I	E	S	R	L	L		270
766	CCC	TTC	CAT	ATC	TTG	AGG	GTC	ATT	CGG	ATC	GAA	TCT	CGC	CTG	CTT		810

Figure 8.

1	M	N	N	N	T	T	C	I	Q	P	S	M	I	S	S	15
1	ATG	AAC	AAC	AAT	ACA	ACA	TGT	ATT	CAA	CCA	TCT	ATG	ATC	TCT	TCC	45
16	M	A	L	P	I	I	Y	I	L	L	C	I	V	G	V	30
46	ATG	GCT	TTA	CCA	ATC	ATT	TAC	ATC	CTC	CTT	TGT	ATT	GTT	GGT	GTT	90
31	F	G	N	T	L	S	Q	W	I	F	L	T	K	I	G	45
91	TTT	GGA	AAC	ACT	CTC	TCT	CAA	TGG	ATA	TTT	TTA	ACA	AAA	ATA	GGT	135
46	K	K	T	S	T	H	I	Y	L	S	H	L	V	T	A	60
136	AAA	AAA	ACA	TCA	ACG	CAC	ATC	TAC	CTG	TCA	CAC	CTT	GTG	ACT	GCA	180
61	N	L	L	V	C	S	A	M	P	F	M	S	I	Y	F	75
181	AAC	TTA	CTT	GTG	TGC	AGT	GCC	ATG	CCT	TTC	ATG	AGT	ATC	TAT	TTC	225
76	L	K	G	F	Q	W	E	Y	Q	S	A	Q	C	R	V	90
226	CTG	AAA	GGT	TTC	CAA	TGG	GAA	TAT	CAA	TCT	GCT	CAA	TGC	AGA	GTG	270
91	V	N	F	L	G	T	L	S	M	H	A	S	M	F	V	105
271	GTC	AAT	TTT	CTG	GGA	ACT	CTA	TCC	ATG	CAT	GCA	AGT	ATG	TTT	GTC	315
106	S	L	L	I	L	S	W	I	A	I	S	R	Y	A	T	120
316	AGT	CTC	TTA	ATT	TTA	AGT	TGG	ATT	GCC	ATA	AGC	CGC	TAT	GCT	ACC	360
121	L	M	Q	K	D	S	S	Q	E	T	T	S	C	Y	E	135
361	TTA	ATG	CAA	AAG	GAT	TCC	TCG	CAA	GAG	ACT	ACT	TCA	TGC	TAT	GAG	405
136	K	I	F	Y	G	H	L	L	K	K	F	R	Q	P	N	150
406	AAA	ATA	TTT	TAT	GGC	CAT	TTA	CTG	AAA	AAA	TTT	CGC	CAG	CCC	AAC	450
151	F	A	R	K	L	C	I	Y	I	W	G	V	V	L	G	165
451	TTT	GCT	AGA	AAA	CTA	TGC	ATT	TAC	ATA	TGG	GGA	GTT	GTA	CTG	GGC	495
166	I	I	I	P	V	T	V	Y	Y	S	V	I	E	A	T	180
496	ATA	ATC	ATT	CCA	GTT	ACC	GTA	TAC	TAC	TCA	GTC	ATA	GAG	GCT	ACA	540
181	E	G	E	E	S	L	C	Y	N	R	Q	M	E	L	G	195
541	GAA	GGA	GAA	GAG	AGC	CTA	TGC	TAC	AAT	CGG	CAG	ATG	GAA	CTA	GGA	585
196	A	M	I	S	Q	I	A	G	L	I	G	T	T	F	I	210
586	GCC	ATG	ATC	TCT	CAG	ATT	GCA	GGT	CTC	ATT	GGA	ACC	ACA	TTT	ATT	630
211	G	F	S	F	L	V	V	L	T	S	Y	Y	S	F	V	225
631	GGA	TTT	TCC	TTT	TTA	GTA	GTA	CTA	ACA	TCA	TAC	TAC	TCT	TTT	GTA	675
226	S	H	L	R	K	I	R	T	C	T	S	I	M	E	K	240
676	AGC	CAT	CTG	AGA	AAA	ATA	AGA	ACC	TGT	ACG	TCC	ATT	ATG	GAG	AAA	720
241	D	L	T	Y	S	S	V	K	R	H	L	L	V	I	Q	255
721	GAT	TTG	ACT	TAC	AGT	TCT	GTG	AAA	AGA	CAT	CTT	TTG	GTC	ATC	CAG	765
256	I	L	L	I	V	C	F	L	P	Y	S	I	F	K	P	270
766	ATT	CTA	CTA	ATA	GTT	TGC	TTC	CTT	CCT	TAT	AGT	ATT	TTT	AAA	CCC	810
271	I	F	Y	V	L	H	Q	R	D	N	C	Q	Q	L	N	285

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Figure 8 (cont.)

811	ATT	TTT	TAT	GTT	CTA	CAC	CAA	AGA	GAT	AAC	TGT	CAG	CAA	TTG	AAT	855
286	Y	L	I	E	T	K	N	I	L	T	C	L	A	S	A	300
856	TAT	TTA	ATA	GAA	ACA	AAA	AAC	ATT	CTC	ACC	TGT	CTT	GCT	TCG	GCC	900
301	R	S	S	T	D	P	I	I	F	L	L	L	D	K	T	315
901	AGA	AGT	AGC	ACA	GAC	CCC	ATT	ATA	TTT	CTT	TTA	TTA	GAT	AAA	ACA	945
316	F	K	K	T	L	Y	N	L	F	T	K	S	N	S	A	330
946	TTC	AAG	AAG	ACA	CTA	TAT	AAT	CTC	TTT	ACA	AAG	TCT	AAT	TCA	GCA	990
331	H	M	Q	S	Y	G	*									337
991	CAT	ATG	CAA	TCA	TAT	GGT	TGA									1011

Figure 8 (cont.)

1	M	Y	N	G	S	C	C	R	I	E	G	D	T	I	S	15
1	ATG	TAC	AAC	GGG	TCG	TGC	TGC	CGC	ATC	GAG	GGG	GAC	ACC	ATC	TCC	45
16	Q	V	M	P	P	L	L	I	V	A	F	V	L	G	A	30
46	CAG	GTG	ATG	CCG	CCG	CTG	CTC	ATT	GTG	GCC	TTT	GTG	CTG	GGC	GCA	90
31	L	G	N	G	V	A	L	C	G	F	C	F	H	M	K	45
91	CTA	GGC	AAT	GGG	GTC	GCC	CTG	TGT	GGT	TTC	TGC	TTC	CAC	ATG	AAG	135
46	T	W	K	P	S	T	V	Y	L	F	N	L	A	V	A	60
136	ACC	TGG	AAG	CCC	AGC	ACT	GTT	TAC	CTT	TTC	AAT	TTG	GCC	GTG	GCT	180
61	D	F	L	L	M	I	C	L	P	F	R	T	D	Y	Y	75
181	GAT	TTC	CTC	CTT	ATG	ATC	TGC	CTG	CCT	TTT	CGG	ACA	GAC	TAT	TAC	225
76	L	R	R	R	H	W	A	F	G	D	I	P	C	R	V	90
226	CTC	AGA	CGT	AGA	CAC	TGG	GCT	TTT	GGG	GAC	ATT	CC	TGC	CGA	GTG	270
91	G	L	F	T	L	A	M	N	R	A	G	S	I	V	F	105
271	GGG	CTC	TTC	ACG	TTG	GCC	ATG	AAC	AGG	GCC	GGG	AGC	ATC	GTG	TTC	315
106	L	T	V	V	A	A	D	R	Y	F	K	V	V	H	P	120
316	CTT	ACG	GTG	GTG	GCT	GCG	GAC	AGG	TAT	TTC	AAA	GTG	GTC	CAC	CCC	360
121	H	H	A	V	N	T	I	S	T	R	V	A	A	G	I	135
361	CAC	CAC	GCG	GTG	AAC	ACT	ATC	TCC	ACC	CGG	GTG	GCG	GCT	GGC	ATC	405
136	V	C	T	L	W	A	L	V	I	L	G	T	V	Y	L	150
406	GTC	TGC	ACC	CTG	TGG	GCC	CTG	GTC	ATC	CTG	GGA	ACA	GTG	TAT	CTT	450
151	L	L	E	N	H	L	C	V	Q	E	T	A	V	S	C	165
451	TTG	CTG	GAG	AAC	CAT	CTC	TGC	GTG	CAA	GAG	ACG	GCC	GTC	TCC	TGT	495
166	E	S	F	I	M	E	S	A	N	G	W	H	D	I	M	180
496	GAG	AGC	TTC	ATC	ATG	GAG	TCG	GCC	AAT	GGC	TGG	CAT	GAC	ATC	ATG	540
181	F	Q	L	E	F	F	M	P	L	G	I	I	L	F	C	195
541	TTC	CAG	CTG	GAG	TTC	TTT	ATG	CCC	CTC	GGC	ATC	ATC	TTA	TTT	TGC	585
196	S	F	K	I	V	W	S	L	R	R	R	Q	Q	L	A	210
586	TCC	TTC	AAG	ATT	GTT	TGG	AGC	CTG	AGG	CGG	AGG	CAG	CAG	CTG	GCC	630
211	R	Q	A	R	M	K	K	A	T	R	F	I	M	V	V	225
631	AGA	CAG	GCT	CGG	ATG	AAG	AAG	GCG	ACC	CGG	TTC	ATC	ATG	GTG	GTG	675
226	A	I	V	F	I	T	C	Y	L	P	S	V	S	A	R	240
676	GCA	ATT	GTG	TTC	ATC	ACA	TGC	TAC	CTG	CCC	AGC	GTG	TCT	GCT	AGA	720
241	L	Y	F	L	W	T	V	P	S	S	A	C	D	P	S	255
721	CTC	TAT	TTC	CTC	TGG	ACG	GTG	CCC	TCG	AGT	GCC	TGC	GAT	CCC	TCT	765
256	V	H	G	A	L	H	I	T	L	S	F	T	Y	M	N	270
766	GTC	CAT	GGG	GCC	CTG	CAC	ATA	ACC	CTC	AGC	TTC	ACC	TAC	ATG	AAC	810
271	S	M	L	D	P	L	V	Y	Y	F	S	S	P	S	F	285

Figure 9 (cont.)

811	AGC	ATG	CTG	GAT	CCC	CTG	GTG	TAT	TAT	TTT	TCA	AGC	CCC	TCC	TTT	855
286	P	K	F	Y	N	K	L	K	I	C	S	L	K	P	K	300
856	CCC	AAA	TTC	TAC	AAC	AAG	CTC	AAA	ATC	TGC	AGT	CTG	AAA	CCC	AAG	900
301	Q	P	G	H	S	K	T	Q	R	P	E	E	M	P	I	315
901	CAG	CCA	GGA	CAC	TCA	AAA	ACA	CAA	AGG	CCG	GAA	GAG	ATG	CCA	ATT	945
316	S	N	L	G	R	R	S	C	I	S	V	A	N	S	F	330
946	TCG	AAC	CTC	GGT	CGC	AGG	AGT	TGC	ATC	AGT	GTG	GCA	AAT	AGT	TTC	990
331	Q	S	Q	S	D	G	Q	W	D	P	H	I	V	E	W	345
991	CAA	AGC	CAG	TCT	GAT	GGG	CAA	TGG	GAT	CCC	CAC	ATT	GTT	GAG	TGG	1035
346	H	*														347
1036	CAC	TGA														1041

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Figure 10.

1	M	G	P	G	E	A	L	L	A	G	L	L	V	M	V	15
1	ATG	GGC	CCC	GGC	GAG	GCG	CTG	CTG	GCG	GGT	CTC	CTG	GTG	ATG	GTA	45
16	L	A	V	A	L	L	S	N	A	L	V	L	L	C	C	30
46	CTG	GCC	GTG	GCG	CTG	CTA	TCC	AAC	GCA	CTG	GTG	CTG	CTT	TGT	TGC	90
31	A	Y	S	A	E	L	R	T	R	A	S	G	V	L	L	45
91	GCC	TAC	AGC	GCT	GAG	CTC	CGC	ACT	CGA	GCC	TCA	GGC	GTC	CTC	CTG	135
46	V	N	L	S	L	G	H	L	L	L	A	A	L	D	M	60
136	GTG	AAT	CTG	TCT	CTG	GGC	CAC	CTG	CTG	CTG	GCG	GCG	CTG	GAC	ATG	180
61	P	F	T	L	L	G	V	M	R	G	R	T	P	S	A	75
181	CCC	TTC	ACG	CTG	CTC	GGT	GTG	ATG	CGC	GGG	CGG	ACA	CCG	TCG	GCG	225
76	P	G	A	C	Q	V	I	G	F	L	D	T	F	L	A	90
226	CCC	GGC	GCA	TGC	CAA	GTC	ATT	GGC	TTC	CTG	GAC	ACC	TTC	CTG	GCG	270
91	S	N	A	A	L	S	V	A	A	L	S	A	D	Q	W	105
271	TCC	AAC	GCG	GCG	CTG	AGC	GTG	GCG	GCG	CTG	AGC	GCA	GAC	CAG	TGG	315
106	L	A	V	G	F	P	L	R	Y	A	G	R	L	R	P	120
316	CTG	GCA	GTG	GGC	TTC	CCA	CTG	CGC	TAC	GCC	GGA	CGC	CTG	CGA	CCG	360
121	R	Y	A	G	L	L	L	G	C	A	W	G	Q	S	L	135
361	CGC	TAT	GCC	GGC	CTG	CTG	CTG	GGC	TGT	GCC	TGG	GGA	CAG	TCG	CTG	405
136	A	F	S	G	A	A	L	G	C	S	W	L	G	Y	S	150
406	GCC	TTC	TCA	GGC	GCT	GCA	CTT	GGC	TGC	TCG	TGG	CTT	GGC	TAC	AGC	450
151	S	A	F	A	S	C	S	L	R	L	P	P	E	P	E	165
451	AGC	GCC	TTC	GCG	TCC	TGT	TCG	CTG	CGC	CTG	CCG	CCC	GAG	CCT	GAG	495
166	R	P	R	F	A	A	F	T	A	T	L	H	A	V	G	180
496	CGT	CCG	CGC	TTC	GCA	GCC	TTC	ACC	GCC	ACG	CTC	CAT	GCC	GTG	GGC	540
181	F	V	L	P	L	A	V	L	C	L	T	S	L	Q	V	195
541	TTC	GTG	CTG	CCG	CTG	GCG	GTG	CTC	TGC	CTC	ACC	TCG	CTC	CAG	GTG	585
196	H	R	V	A	R	R	H	C	Q	R	M	D	T	V	T	210
586	CAC	CGG	GTG	GCA	CGC	AGA	CAC	TGC	CAG	CGC	ATG	GAC	ACC	GTC	ACC	630
211	M	K	A	L	A	L	L	A	D	L	H	P	R	Y	W	225
631	ATG	AAG	GCG	CTC	GCG	CTG	CTC	GCC	GAC	CTG	CAC	CCC	AGG	TAT	TGG	675
226	P	S	A	C	R	Q	A	Q	A	R	D	L	G	A	P	240
676	CCC	AGT	GCA	TGC	CGA	CAG	GCC	CAG	GCC	AGG	GAC	TTG	GGC	GCT	CCC	720
241	W	A	V	G	L	R	S	L	W	A	S	P	P	L	L	255
721	TGG	GCA	GTT	GGC	TTG	AGG	AGC	CTG	TGG	GCA	TCA	CCA	CCG	TTA	CTC	765
256	C	P	E	F	T	S	H	S	T	A	P	A	R	C	S	270
766	TGC	CCA	GAG	TTC	ACC	AGC	CAC	AGC	ACT	GCC	CCT	GCA	CGC	TGC	TCA	810
271	Q	G	F	P	V	G	S	L	V	Q	T	L	R	G	P	285

Figure 10 (cont.)

811	CAG	GGG	TTT	CCT	GTT	GGT	TCA	TTG	GTG	CAG	ACA	CTG	CGG	GGG	CCT	855
286	L	P	P	G	I	C	A	H	S	A	Q	G	A	L	R	300
856	CTG	CCT	CCT	GGG	ATA	TGT	GCT	CAC	AGT	GCA	CAG	GGA	GCT	TTG	CGC	900
301	R	A	V	G	C	A	S	P	G	G	V	P	R	A	L	315
901	AGA	GCT	GTG	GGG	TGT	GCT	TCT	CCG	GGA	GGG	GTT	CCG	CGG	GCT	CTG	945
316	L	W	A	A	R	H	T	P	P	V	H	G	C	G	S	330
946	CTG	TGG	GCG	GCC	AGA	CAC	ACC	CCT	CCT	GTG	CAT	GGC	TGT	GGG	TCT	990
331	E	A	S	A	C	F	C	P	L	L	T	Q	C	P	C	345
991	GAG	GCA	TCT	GCT	TGT	TTC	TGC	CCA	CTG	CTG	ACC	CAG	TGC	CCT	TGC	1035
346	M	D	L	G	F	K	S	*								352
1036	ATG	GAC	TTG	GGC	TTC	AAG	TCT	TGA								1059

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Figure 11.

1	M	T	P	N	S	T	G	E	V	P	S	P	I	P	K	15
1	ATG	ACG	CCC	AAC	AGC	ACT	GGC	GAG	GTG	CCC	AGC	CCC	ATT	CCC	AAG	45
16	G	A	L	G	L	S	L	A	L	A	S	L	I	I	T	30
46	GGG	GCT	TTG	GGG	CTC	TCC	CTG	GCC	CTG	GCA	AGC	CTC	ATC	ATC	ACC	90
31	A	N	L	L	L	A	L	G	I	A	G	T	A	A	C	45
91	GCG	AAC	CTG	CTC	CTA	GCC	CTG	GGC	ATC	GCT	GGG	ACC	GCC	GCC	TGC	135
46	A	A	T	C	W	L	L	L	P	E	P	T	A	G	W	60
136	GCA	GCC	ACC	TGC	TGG	CTG	CTT	CTT	CCT	GAG	CCT	ACT	GCT	GGC	TGG	180
61	A	A	H	G	S	G	I	A	T	L	P	G	L	W	N	75
181	GCT	GCT	CAC	GGG	TCT	GGC	ATT	GCC	ACA	TTG	CCA	GGG	CTG	TGG	AAC	225
76	Q	S	R	R	G	Y	W	S	C	L	L	V	Y	L	A	90
226	CAG	AGT	CGC	CGG	GGT	TAC	TGG	TCC	TGC	CTC	CTC	GTC	TAC	TTG	GCT	270
91	P	N	F	S	F	L	S	L	L	A	N	L	L	L	V	105
271	CCC	AAC	TTC	TCC	TTC	CTC	TCC	CTG	CTT	GCC	AAC	CTC	TTG	CTG	GTG	315
106	H	G	E	R	Y	M	A	V	L	R	P	L	Q	P	P	120
316	CAC	GGG	GAG	CGC	TAC	ATG	GCA	GTC	CTG	AGG	CCA	CTC	CAG	CCC	CCT	360
121	G	S	I	R	L	A	L	L	L	T	W	A	G	P	L	135
361	GGG	AGC	ATT	CGG	CTG	GCC	CTG	CTC	CTC	ACC	TGG	GCT	GGT	CCC	CTG	405
136	L	F	A	S	L	P	A	L	G	W	N	H	W	T	P	150
406	CTC	TTT	GCC	AGT	CTG	CCC	GCT	CTG	GGG	TGG	AAC	CAC	TGG	ACC	CCT	450
151	G	A	N	C	S	S	Q	A	I	F	P	A	P	Y	L	165
451	GGT	GCC	AAC	TGC	AGC	TCC	CAG	GCT	ATC	TTC	CCA	GCC	CCC	TAC	CTG	495
166	Y	L	E	V	Y	G	L	L	L	P	A	V	G	A	A	180
496	TAC	CTC	GAA	GTC	TAT	GGG	CTC	CTG	CTG	CCC	GCC	GTG	GGT	GCT	GCT	540
181	A	F	L	S	V	R	V	L	A	T	A	H	R	Q	L	195
541	GCC	TTC	CTC	TCT	GTC	CGC	GTG	CTG	GCC	ACT	GCC	CAC	CGC	CAG	CTG	585
196	Q	D	I	C	R	L	E	R	A	V	C	R	D	E	P	210
586	CAG	GAC	ATC	TGC	CGG	CTG	GAG	CGG	GCA	GTG	TGC	CGC	GAT	GAG	CCC	630
211	S	A	L	A	R	A	L	T	W	R	Q	A	R	A	Q	225
631	TCC	GCC	CTG	GCC	CGG	GCC	CTT	ACC	TGG	AGG	CAG	GCA	AGG	GCA	CAG	675
226	A	G	A	M	L	L	F	G	L	C	W	G	P	Y	V	240
676	GCT	GGA	GCC	ATG	CTG	CTC	TTC	GGG	CTG	TGC	TGG	GGG	CCC	TAC	GTG	720
241	A	T	L	L	L	S	V	L	A	Y	E	Q	R	P	P	255
721	GCC	ACA	CTG	CTC	CTC	TCA	GTC	CTG	GCC	TAT	GAG	CAG	CGC	CCG	CCA	765
256	L	G	P	G	T	L	L	S	L	L	S	L	G	S	A	270
766	CTG	GGG	CCT	GGG	ACA	CTG	TTG	TCC	CTC	CTC	TCC	CTA	GGA	AGT	GCC	810
271	S	A	A	A	V	P	V	A	M	G	L	G	D	Q	R	285

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Figure 11 (cont.)

811	AGT	GCA	GCG	GCA	GTG	CCC	GTA	GCC	ATG	GGG	CTG	GGC	GAT	CAG	CGC	855
286	Y	T	A	P	W	R	Q	P	P	K	G	A	C	R	G	300
856	TAC	ACA	GCC	CCC	TGG	AGG	CAG	CCG	CCC	AAA	GGT	GCC	TGC	AGG	GGC	900
301	C	G	E	E	P	P	G	T	V	P	A	P	A	L	P	315
901	TGT	GGG	GAA	GAG	CCT	CCC	GGG	ACA	GTC	CCG	GCC	CCA	GCA	TTG	CCT	945
316	T	T	Q	A	A	K	A	V	S	T	W	T	*			327
946	ACC	ACC	CAA	GCA	GCC	AAA	GCA	GTG	TCG	ACC	TGG	ACT	TGA			984

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11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 841. 842. 843. 844. 845. 846. 847

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | M | G | D | E | L | A | P | C | P | V | G | T | T | A | W | 15 |
| 1 | ATG | GGG | GAT | GAG | CTG | GCA | CCT | TGC | CCT | GTG | GGC | ACT | ACA | GCT | TGG | 45 |
| 16 | P | A | L | I | Q | L | I | S | K | T | P | C | M | P | Q | 30 |
| 46 | CCG | GCC | CTG | ATC | CAG | CTC | ATC | AGC | AAG | ACA | CCC | TGC | ATG | CCC | CAA | 90 |
| 31 | A | A | S | N | T | S | L | G | L | G | D | L | R | V | P | 45 |
| 91 | GCA | GCC | AGC | AAC | ACT | TCC | TTG | GGC | CTG | GGG | GAC | CTC | AGG | GTG | CCC | 135 |
| 46 | S | S | M | L | Y | W | L | F | L | P | S | S | L | L | A | 6 |
| 136 | AGC | TCC | ATG | CTG | TAC | TGG | CTT | TTC | CTT | CCC | TCA | AGC | CTG | CTG | GCT | 180 |
| 61 | A | A | T | L | A | V | S | P | L | L | L | V | T | I | L | 75 |
| 181 | GCA | GCC | ACA | CTG | GCT | GTC | AGC | CCC | CTG | CTG | CTG | GTG | ACC | ATC | CTG | 225 |
| 76 | R | N | Q | R | L | R | Q | E | P | H | Y | L | L | P | A | 90 |
| 226 | CGG | AAC | CAA | CGG | CTG | CGA | CAG | GAG | CCC | CAC | TAC | CTG | CTC | CCG | GCT | 270 |
| 91 | N | I | L | L | S | D | L | A | Y | I | L | L | H | M | L | 105 |
| 271 | AAC | ATC | CTG | CTC | TCA | GAC | CTG | GCC | TAC | ATT | CTC | CTC | CAC | ATG | CTC | 315 |
| 106 | I | S | S | S | S | L | G | G | W | E | L | G | R | M | A | 120 |
| 316 | ATC | TCC | TCC | AGC | AGC | CTG | GGT | GGC | TGG | GAG | CTG | GGC | CGC | ATG | GCC | 360 |
| 121 | C | G | I | L | T | D | A | V | F | A | A | C | T | S | T | 135 |
| 361 | TGT | GGC | ATT | CTC | ACT | GAT | GCT | GTC | TTC | GCC | GCC | TGC | ACC | AGC | ACC | 405 |
| 136 | I | L | S | F | T | A | I | V | L | H | T | Y | L | A | V | 150 |
| 406 | ATC | CTG | TCC | TTC | ACC | GCC | ATT | GTG | CTG | CAC | ACC | TAC | CTG | GCA | GTC | 450 |
| 151 | I | H | P | L | R | Y | L | S | F | M | S | H | G | A | A | 165 |
| 451 | ATC | CAT | CCA | CTG | CGC | TAC | CTC | TCC | TTC | ATG | TCC | CAT | GGG | GCT | GCC | 495 |
| 166 | W | K | A | V | A | L | I | W | L | V | A | C | C | F | P | 180 |
| 496 | TGG | AAG | GCA | GTG | GCC | CTC | ATC | TGG | CTG | GTG | GCC | TGC | TGC | TTC | CCC | 540 |
| 181 | T | F | L | I | W | L | S | K | W | Q | D | A | Q | L | E | 195 |
| 541 | ACA | TTC | CTT | ATT | TGG | CTC | AGC | AAG | TGG | CAG | GAT | GCC | CAG | CTG | GAG | 585 |
| 196 | E | Q | G | A | S | Y | I | L | P | P | S | M | G | T | Q | 210 |
| 586 | GAG | CAA | GGA | GCT | TCA | TAC | ATC | CTA | CCA | CCA | AGC | ATG | GGC | ACC | CAG | 630 |
| 211 | P | G | C | G | L | L | V | I | V | T | Y | T | S | I | L | 225 |
| 631 | CCG | GGA | TGT | GGC | CTC | CTG | GTC | ATT | GTT | ACC | TAC | ACC | TCC | ATT | CTG | 675 |
| 226 | C | V | L | F | L | C | T | A | L | I | A | N | C | F | W | 240 |
| 676 | TGC | GTT | CTG | TTC | CTC | TGC | ACA | GCT | CTC | ATT | GCC | AAC | TGT | TTC | TGG | 720 |
| 241 | R | I | Y | A | E | A | K | T | S | G | I | W | G | Q | G | 255 |
| 721 | AGG | ATC | TAT | GCA | GAG | GCC | AAG | ACT | TCA | GGC | ATC | TGG | GGG | CAG | GGC | 765 |
| 256 | Y | S | R | A | R | G | T | L | L | I | H | S | V | L | I | 270 |
| 766 | TAT | TCC | CGG | GCC | AGG | GGC | ACC | CTG | CTG | ATC | CAC | TCA | GTG | CTG | ATC | 810 |
| 271 | T | L | Y | V | S | T | G | V | V | F | S | L | D | M | V | 285 |

Figure 12 (cont.)

| | | | | | | | | | | | | | | | | |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 811 | ACA | TTG | TAC | GTG | AGC | ACA | GGG | GTG | GTG | TTC | TCC | CTG | GAC | ATG | GTG | 855 |
| 286 | L | T | R | Y | H | H | I | D | S | G | T | H | T | W | L | 300 |
| 856 | CTG | ACC | AGG | TAC | CAC | CAC | ATT | GAC | TCT | GGG | ACT | CAC | ACA | TGG | CTC | 900 |
| 301 | L | A | A | N | S | E | V | L | M | M | L | P | R | A | M | 315 |
| 901 | CTG | GCA | GCT | AAC | AGT | GAG | GTA | CTC | ATG | ATG | CTT | CCC | CGT | GCC | ATG | 945 |
| 316 | L | T | Y | L | Y | L | L | R | Y | R | Q | L | L | G | M | 330 |
| 946 | CTC | ACA | TAC | CTG | TAC | CTG | CTC | CGC | TAC | CGG | CAG | CTG | TTG | GGC | ATG | 990 |
| 331 | V | R | G | H | L | P | S | R | R | H | Q | A | I | F | T | 345 |
| 991 | GTC | CGG | GGC | CAC | CTC | CCA | TCC | AGG | AGG | CAC | CAG | GCC | ATC | TTT | ACC | 1035 |
| 346 | I | S | * | | | | | | | | | | | | | 347 |
| 1036 | ATT | TCC | TAG | | | | | | | | | | | | | 1044 |

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Figure 13.

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | G | P | H | R | S | Q | R | S | H | L | C | F | R | A | K | 15 |
| 1 | GGC | CCC | CAT | AGG | AGC | CAA | CGA | AGT | CAT | CTT | TGC | TTC | AGA | GCT | AAA | 45 |
| 16 | P | V | F | L | L | S | T | A | N | I | L | T | V | I | I | 30 |
| 46 | CCA | GTT | TTT | CTT | CTC | TCC | ACA | GCA | AAT | ATC | TTG | ACA | GTG | ATC | ATC | 90 |
| 31 | L | S | Q | L | V | A | R | R | Q | K | S | S | Y | N | Y | 45 |
| 91 | CTC | TCC | CAG | CTG | GTG | GCA | AGA | AGA | CAG | AAG | TCC | TCC | TAC | AAC | TAT | 135 |
| 46 | L | L | A | L | A | A | A | D | I | L | V | L | F | F | I | 60 |
| 136 | CTC | TTG | GCA | CTC | GCT | GCT | GCC | GAC | ATC | TTG | GTC | CTC | TTT | TTC | ATA | 180 |
| 61 | V | F | V | D | F | L | L | E | D | F | I | L | N | M | Q | 75 |
| 181 | GTG | TTT | GTG | GAC | TTC | CTG | TTG | GAA | GAT | TTC | ATC | TTG | AAC | ATG | CAG | 225 |
| 76 | M | P | Q | V | P | D | K | I | I | E | V | L | E | F | S | 90 |
| 226 | ATG | CCT | CAG | GTC | CCC | GAC | AAG | ATC | ATA | GAA | GTG | CTG | GAA | TTC | TCA | 270 |
| 91 | S | I | H | T | S | I | W | I | T | V | P | L | T | I | D | 105 |
| 271 | TCC | ATC | CAC | ACC | TCC | ATA | TGG | ATT | ACT | GTA | CCG | TTA | ACC | ATT | GAC | 315 |
| 106 | R | Y | I | A | V | C | H | P | L | K | Y | H | T | V | S | 120 |
| 316 | AGG | TAT | ATC | GCT | GTC | TGC | CAC | CCG | CTC | AAG | TAC | CAC | ACG | GTC | TCA | 360 |
| 121 | Y | P | A | R | T | R | K | V | I | V | S | V | Y | I | T | 135 |
| 361 | TAC | CCA | GCC | CGC | ACC | CGG | AAA | GTC | ATT | GTA | AGT | GTT | TAC | ATC | ACC | 405 |
| 136 | C | F | L | T | S | I | P | Y | Y | W | W | P | N | I | W | 150 |
| 406 | TGC | TTC | CTG | ACC | AGC | ATC | CCC | TAT | TAC | TGG | TGG | CCC | AAC | ATC | TGG | 450 |
| 151 | T | E | D | Y | I | S | T | S | V | H | H | V | L | I | W | 165 |
| 451 | ACT | GAA | GAC | TAC | ATC | AGC | ACC | TCT | GTG | CAT | CAC | GTC | CTC | ATC | TGG | 495 |
| 166 | I | H | C | F | T | V | Y | L | V | P | C | S | I | F | F | 180 |
| 496 | ATC | CAC | TGC | TTC | ACC | GTC | TAC | CTG | GTG | CCC | TGC | TCC | ATC | TTC | TTC | 540 |
| 181 | I | L | N | S | I | I | V | Y | K | L | R | R | K | S | N | 195 |
| 541 | ATC | TTG | AAC | TCA | ATC | ATT | GTG | TAC | AAG | CTC | AGG | AGG | AAG | AGC | AAT | 585 |
| 196 | F | R | L | R | G | Y | S | T | G | K | T | T | A | I | L | 210 |
| 586 | TTT | CGT | CTC | CGT | GGC | TAC | TCC | ACG | GGG | AAG | ACC | ACC | GCC | ATC | TTG | 630 |
| 211 | F | T | I | T | S | I | F | A | T | L | W | A | P | R | I | 225 |
| 631 | TTC | ACC | ATT | ACC | TCC | ATC | TTT | GCC | ACA | CTT | TGG | GCC | CCC | CGC | ATC | 675 |
| 226 | I | M | I | L | Y | H | L | Y | G | A | P | I | Q | N | R | 240 |
| 676 | ATC | ATG | ATT | CTT | TAC | CAC | CTC | TAT | GGG | GCG | CCC | ATC | CAG | AAC | CGC | 720 |
| 241 | W | L | V | H | I | M | S | D | I | A | N | M | L | A | L | 255 |
| 721 | TGG | CTG | GTA | CAC | ATC | ATG | TCC | GAC | ATT | GCC | AAC | ATG | CTA | GCC | CTT | 765 |
| 256 | L | N | T | A | I | N | F | F | L | Y | C | F | I | S | K | 270 |
| 766 | CTG | AAC | ACA | GCC | ATC | AAC | TTC | TTC | CTC | TAC | TGC | TTC | ATC | AGC | AAG | 810 |
| 271 | R | F | R | T | M | A | A | A | T | L | K | A | F | F | K | 285 |

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Figure 14.

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | M | L | A | A | A | F | A | D | S | N | S | S | S | M | N | 15 |
| 1 | ATG | CTG | GCA | GCT | GCC | TTT | GCA | GAC | TCT | AAC | TCC | AGC | AGC | ATG | AAT | 45 |
| 16 | V | S | F | A | H | L | H | F | A | G | G | Y | L | P | S | 30 |
| 46 | GTG | TCC | TTT | GCT | CAC | CTC | CAC | TTT | GCC | GGA | GGG | TAC | CTG | CCC | TCT | 90 |
| 31 | D | S | Q | D | W | R | T | I | I | P | A | L | L | V | A | 45 |
| 91 | GAT | TCC | CAG | GAC | TGG | AGA | ACC | ATC | ATC | CCG | GCT | CTC | TTG | GTG | GCT | 135 |
| 46 | V | C | L | V | G | F | V | G | N | L | C | V | I | G | I | 60 |
| 136 | GTC | TGC | CTG | GTG | GGC | TTC | GTG | GGA | AAC | CTG | TGT | GTG | ATT | GGC | ATC | 180 |
| 61 | L | L | H | N | A | W | K | G | K | P | S | M | I | H | S | 75 |
| 181 | CTC | CTT | CAC | AAT | GCT | TGG | AAA | GGA | AAG | CCA | TCC | ATG | ATC | CAC | TCC | 225 |
| 76 | L | I | L | N | L | S | L | A | D | L | S | L | L | L | F | 90 |
| 226 | CTG | ATT | CTG | AAT | CTC | AGC | CTG | GCT | GAT | CTC | TCC | CTC | CTG | CTG | TTT | 270 |
| 91 | S | A | P | I | R | A | T | A | Y | S | K | S | V | W | D | 105 |
| 271 | TCT | GCA | CCT | ATC | CGA | GCT | ACG | GCG | TAC | TCC | AAA | AGT | GTT | TGG | GAT | 315 |
| 106 | L | G | W | F | V | C | K | S | S | D | W | F | I | H | T | 120 |
| 316 | CTA | GGC | TGG | TTT | GTC | TGC | AAG | TCC | TCT | GAC | TGG | TTT | ATC | CAC | ACA | 360 |
| 121 | C | M | A | A | K | S | L | T | I | V | V | V | A | K | V | 135 |
| 361 | TGC | ATG | GCA | GCC | AAG | AGC | CTG | ACA | ATC | GTT | GTG | GTG | GCC | AAA | GTA | 405 |
| 136 | C | F | M | Y | A | S | D | P | A | K | Q | V | S | I | H | 150 |
| 406 | TGC | TTC | ATG | TAT | GCA | AGT | GAC | CCA | GCC | AAG | CAA | GTG | AGT | ATC | CAC | 450 |
| 151 | N | Y | T | I | W | S | V | L | V | A | I | W | T | V | A | 165 |
| 451 | AAC | TAC | ACC | ATC | TGG | TCA | GTG | CTG | GTG | GCC | ATC | TGG | ACT | GTG | GCT | 495 |
| 166 | S | L | L | P | L | P | E | W | F | F | S | T | I | R | H | 180 |
| 496 | AGC | CTG | TTA | CCC | CTG | CCG | GAA | TGG | TTC | TTT | AGC | ACC | ATC | AGG | CAT | 540 |
| 181 | H | E | G | V | E | M | C | L | V | D | V | P | A | V | A | 195 |
| 541 | CAT | GAA | GGT | GTG | GAA | ATG | TGC | CTC | GTG | GAT | GTA | CCA | GCT | GTG | GCT | 585 |
| 196 | E | E | F | M | S | M | F | G | K | L | Y | P | L | L | A | 210 |
| 586 | GAA | GAG | TTT | ATG | TCG | ATG | TTT | GGT | AAG | CTC | TAC | CCA | CTC | CTG | GCA | 630 |
| 211 | F | G | L | P | L | F | F | A | S | F | Y | F | W | R | A | 225 |
| 631 | TTT | GGC | CTT | CCA | TTA | TTT | TTT | GCC | AGC | TTT | TAT | TTC | TGG | AGA | GCT | 675 |
| 226 | Y | D | Q | C | K | K | R | G | T | K | T | Q | N | L | R | 240 |
| 676 | TAT | GAC | CAA | TGT | AAA | AAA | CGA | GGA | ACT | AAG | ACT | CAA | AAT | CTT | AGA | 720 |
| 241 | N | Q | I | R | S | K | Q | V | T | V | M | L | L | S | I | 255 |
| 721 | AAC | CAG | ATA | CGC | TCA | AAG | CAA | GTC | ACA | GTG | ATG | CTG | CTG | AGC | ATT | 765 |
| 256 | A | I | I | S | A | L | L | W | L | P | E | W | V | A | W | 270 |
| 766 | GCC | ATC | ATC | TCT | GCT | CTC | TTG | TGG | CTC | CCC | GAA | TGG | GTA | GCT | TGG | 810 |
| 271 | L | W | V | W | H | L | K | A | A | G | P | A | P | P | Q | 285 |

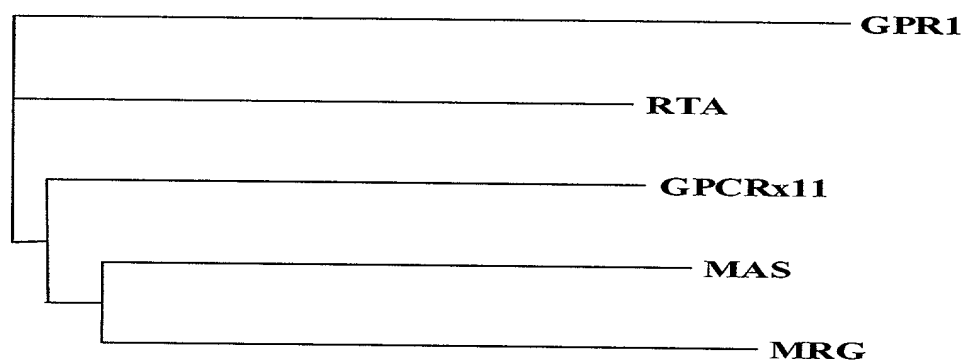
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Figure 14 (cont.)

| | | | | | | | | | | | | | | | | |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 811 | CTG | TGG | GTA | TGG | CAT | CTG | AAG | GCT | GCA | GGC | CCG | GCC | CCA | CCA | CAA | 855 |
| 286 | G | F | I | A | L | S | Q | V | L | M | F | S | I | S | S | 300 |
| 856 | GGT | TTC | ATA | GCC | CTG | TCT | CAA | GTC | TTG | ATG | TTT | TCC | ATC | TCT | TCA | 900 |
| 301 | A | N | P | L | I | F | L | V | M | S | E | E | F | R | E | 315 |
| 901 | GCA | AAT | CCT | CTC | ATT | TTT | CTT | GTG | ATG | TCG | GAA | GAG | TTC | AGG | GAA | 945 |
| 316 | G | L | K | G | V | W | K | W | M | I | T | K | K | P | P | 330 |
| 946 | GGC | TTG | AAA | GGT | GTA | TGG | AAA | TGG | ATG | ATA | ACC | AAA | AAA | CCT | CCA | 990 |
| 331 | T | V | S | E | S | Q | E | T | P | A | G | N | S | E | G | 345 |
| 991 | ACT | GTC | TCA | GAG | TCT | CAG | GAA | ACA | CCA | GCT | GGC | AAC | TCA | GAG | GGT | 1035 |
| 346 | L | P | D | K | V | P | S | P | E | S | P | A | S | I | P | 360 |
| 1036 | CTT | CCT | GAC | AAG | GTT | CCA | TCT | CCA | GAA | TCC | CCA | GCA | TCC | ATA | CCA | 1080 |
| 361 | E | K | E | K | P | S | S | P | S | S | G | K | G | K | T | 375 |
| 1081 | GAA | AAA | GAG | AAA | CCC | AGC | TCT | CCC | TCC | TCT | GGC | AAA | GGG | AAA | ACT | 1125 |
| 376 | E | K | A | E | I | P | I | L | P | D | V | E | Q | F | W | 390 |
| 1126 | GAG | AAG | GCA | GAG | ATT | CCC | ATC | CTT | CCT | GAC | GTA | GAG | CAG | TTT | TGG | 1170 |
| 391 | H | E | R | D | T | V | P | S | V | Q | D | N | D | P | I | 405 |
| 1171 | CAT | GAG | AGG | GAC | ACA | GTC | CCT | TCT | GTA | CAG | GAC | AAT | GAC | CCT | ATC | 1215 |
| 406 | P | W | E | H | E | D | Q | E | T | G | E | G | V | K | * | 419 |
| 1216 | CCC | TGG | GAA | CAT | GAA | GAT | CAA | GAG | ACA | GGG | GAA | GGT | GTT | AAA | TAG | 1260 |

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Figure 15.



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Figure 16.

